



**TYPICAL CHARACTERISTICS
ON
PE2-32-7G9G-4R0-21-SFF**

PL35322/2202

PMI MODEL NUMBER PE2-32-7G9G-4R0-21-SFF IS AN AMPLIFIER OPERATING IN THE RANGE OF 7 GHz TO 9 GHz WITH A NOMINAL GAIN OF +32dB. THIS PRODUCT IS PROVIDED IN OUR STANDARD PE2 HOUSING



12-Jan-22
Tested By: Hugo Gonzales
Reported by: Hugo Gonzales



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Technical Sheet

Description

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Specifications

- FREQUENCY RANGE: 7.0 TO 9.0 GHz
- GAIN: +32 dB NOM
- GAIN FLATNESS: ± 1.25 dB TYP.
- NOISE FIGURE: 4 dB MAX.
- OP1dB: +21 dBm MIN.
- VSWR (IN/OUT): 1.8:1 MAX.
- CONNECTORS (IN/OUT): SMA (F)
- SUPPLY VOLTAGE: +12 TO +15 VDC @ 300 mA TYP.

ENVIRONMENTAL RATINGS

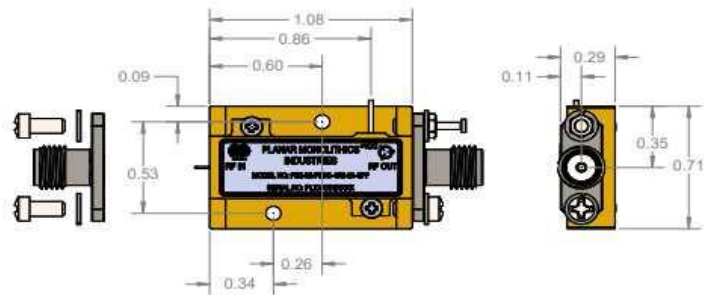
- TEMPERATURE: -40 °C TO +85 °C (OPERATING)
-40 °C TO +100 ° (NON-OPERATING)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

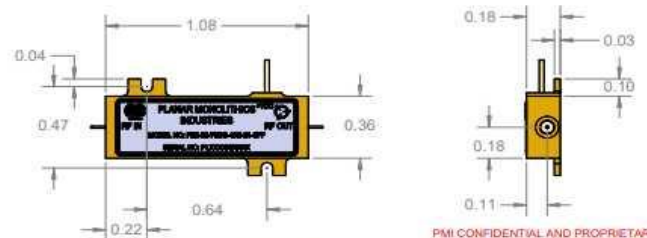
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

DATE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/05/11	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED	E. PLASKET	11/05/11	OUTLINE	
REVIEWED			PE2-32-7G9G-4R0-21-SFF	
REVISED	B	05XQ0	REV. NO.	27043105
SCALE 2:1		SHEET 1 OF 1		A1



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Technical Specifications Over Temperature

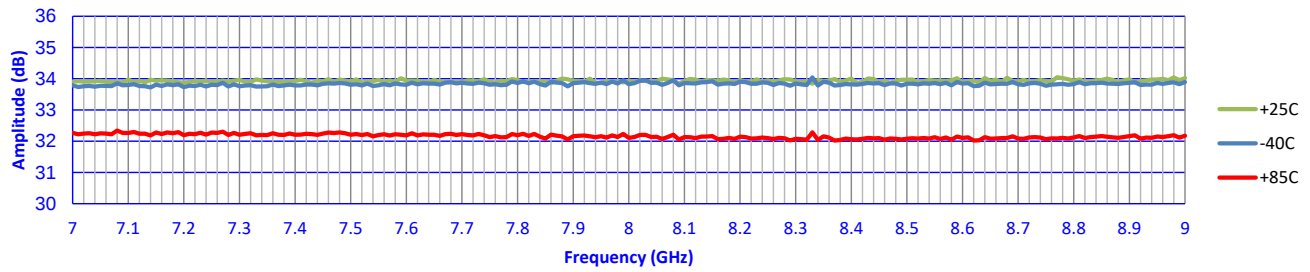
TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Frequency Range:	7.0 - 9.0 GHz	7.0 - 9.0 GHz See Plot	
2	Gain:	32 dB Nom.	-40°C	+34 dB Max.+33.7 dB Min.
			+25°C	+34 dB Max.+33.8 dB Min.
			+85°C	+32.3 dB Max.+32 dB Min.
			See Plot	
3	Gain Flatness:	±1.25 dB Typ.	-40°C	±0.16 dB
			+25°C	±0.1 dB
			+85°C	±0.16 dB
			See Plot	
4	Noise Figure:	4 dB Max.	-40°C	2 dB
			+25°C	2.3 dB
			+85°C	2.9 dB
			See Plot	
5	OP1dB:	+21dBm Min.	-40°C	21.2 dB
			+25°C	21.4 dB
			+85°C	21.3 dB
			See Plot	
6	VSWR: (IN/OUT)	1.8:1 Max.	-40°C	1.4:1 In 1.3:1 Out
			+25°C	1.4:1 In 1.3:1 Out
			+85°C	1.4:1 In 1.3:1 Out
			See Plot	
7	DC Supply:	+12 to +15 VDC @ 300mA Typ	-40°C	VDC @ 290mA
			+25°C	VDC @ 335mA
			+85°C	VDC @ 351mA



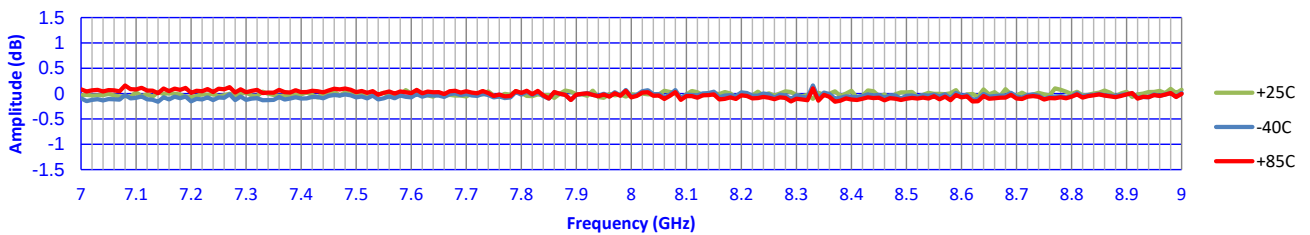
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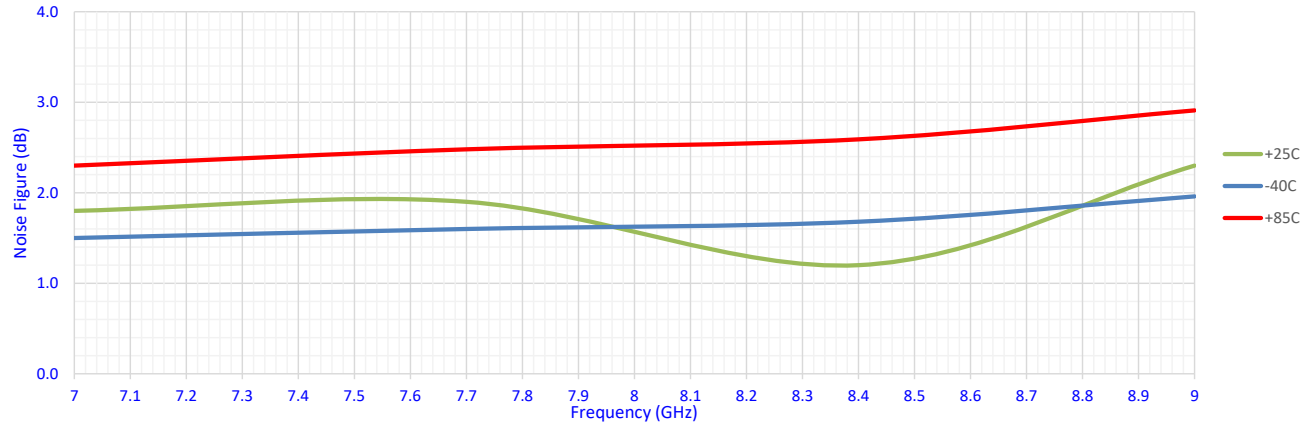
Gain



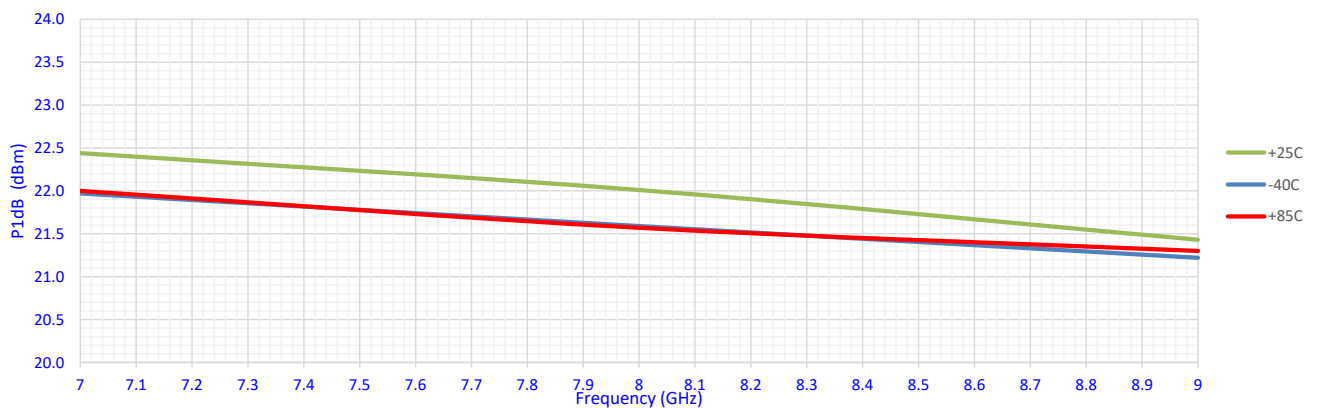
Gain Flatness



Noise Figure



OP1dB Compression





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